

Specializing in odor problems in livestock barns and compost sheds

# resQ Deomaster

The double power of deodorization and perfumery



The double power of deodorizing ingredients derived from persimmon astringents and aromatic ingredients that easily harmonize with odors suppresses odors in the livestock farming. We have two fragrance types, "Floral" and "Aroma", according to the type of livestock and environment.

## Deodorizer from persimmon astringents

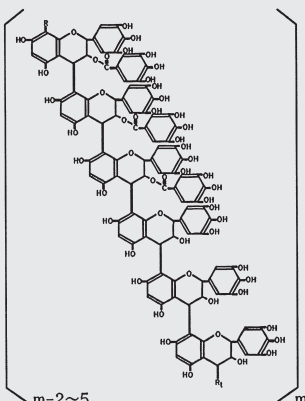
### PERSIMMON TANNIC ACID

(high-molecular polyphenol derived from persimmon)

Deomaster contains high deodorizing ingredients derived from persimmon astringent. Persimmon tannic acid have a deodorizing effect on various types of odors.

The phenolic hydroxyl group of persimmon tannic acid catches the molecule which causes odors. The antioxidant effect of the hydroxyl group chemically reacts and eliminate the source of odors.

Reference: The estimated repeating structure of persimmon tannins(Matsuo et al., 1977)



## Harmonize odors

### Selected fragrance masks the targeted odors

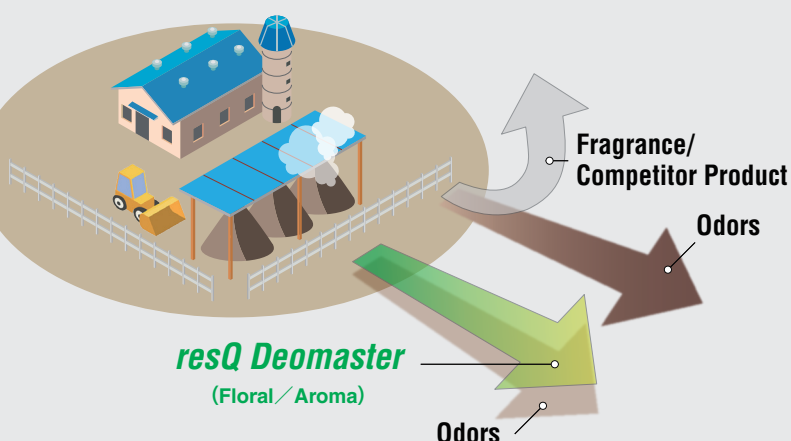
Through repeated tests, we blended ingredients which are easy to harmonize with odors from livestock farming.



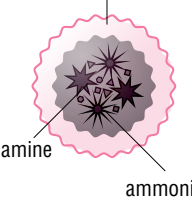
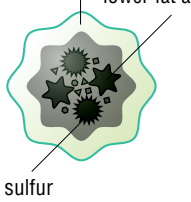
Two fragrance types are available depending on the odor component.

(Chicken: Deomaster Floral / Swine: Deomaster Aroma)

Create an environment which is friendly to workers and neighborhoods

Deomaster contains ingredients heavier than air which reach even at a distance



Chicken	Livestock	Swine
 <b>resQ Deomaster Floral</b>	Suitable Products	 <b>resQ Deomaster Aroma</b>
Fragrances which harmonize with the smell of chickens, mainly Amine and Ammonia		Fragrances which harmonize with the smell of swine, such as lower fatty acid and sulfur compound
 aromatic component/ perfume component amine ammonia	Smell Masking Image	 aromatic component/ perfume component lower fat acid sulfur compound

## Results of deodorant evaluation

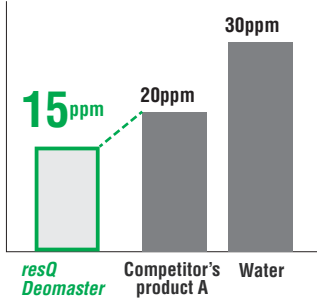


DEvaluation item/Deodorizing

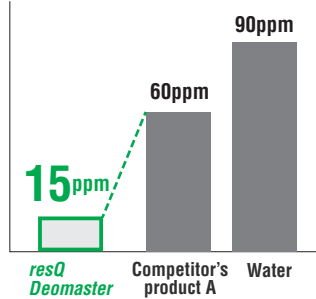
### Deodorizing performance evaluation

Impregnate the filter paper with odorous substance and deodorant and measure the concentration of odorous substance after 10 minutes.

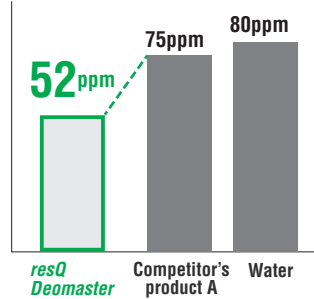
#### ① Ammonia



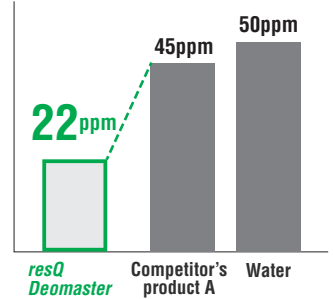
#### ② Trimethylamine



#### ③ Propionic acid



#### ④ Methyl mercaptan



Evaluation item/Dilution ratio

### Perceivable dilution factor evaluation

Dilute the deodorant and sensory evaluate the perceptual limit concentration.

**Result :** The ratio by which more than 50% of the evaluators perceived the odor.

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Competitor's product A

Competitor's product B

Dilution ratio: **100,000 times**

10,000 times

500 times



Evaluation item/Perception limit distance

### Perceptible distances evaluation

Put the deodorant diluted 200 times in a tray and evaluate the limit distance at which the fragrance is perceived.

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Competitor's product A

Competitor's product B

Limit distance : **25m**

16m

12m

## Usage examples



Barn roof spraying



Filter deodorization



Deodorization facilities of cylindrical fermentation tank



Perimeter of the compost shed



Spreader



Barn exhaust fan

## How to use

When spraying, dilute and spray depending on the intensity of odors and the spraying time. Please follow the handling method of spreader you are using about the dilution and spraying method.

### CAUTION

Please refrain from spraying directly on livestock and livestock waste.



Spreaders are also available at Menicon.



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Flower scent / Refreshing scent  
18kg bag-in-box (packing is subject to change)